

WHAT IS CLAIMED IS:

1. A gamma camera comprising:  
a detector which acts to acquire scintillation event  
5 data;  
an event data processor coupled to the detector which  
is responsive to the event data to produce image  
information;  
a camera system controller, responsive to study  
10 parameters, which acts to control the camera to perform a  
desired nuclear study; and  
a user input, coupled to the controller, which  
enables user selection of a study parameter,  
wherein the user input is operable during the conduct  
15 of a study to enable the user to modify the study  
parameter.
2. The gamma camera of Claim 1, wherein the user  
input is operable while the detector is acquiring  
20 scintillation event data to modify the conduct of the  
study.
3. The gamma camera of Claim 1, further comprising  
a gantry, coupled to the detector, which acts to move the  
25 detector from an initial position to a final position  
during the conduct of a study.
4. The gamma camera of Claim 1, wherein the study  
parameter which is modified is the time of event data  
30 acquisition.
5. The gamma camera of Claim 1, wherein the study  
parameter which is modified is the number of frames  
acquired during the study.

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6. The gamma camera of Claim 1, wherein the study parameter which is modified is the count criterion for data acceptance.

5           7. The gamma camera of Claim 1, wherein the camera system controller acts to control the camera to perform the desired nuclear study in a series of stages; and  
              wherein the user input enables the user to modify a study parameter of a stage which has not yet been executed  
10           during the conduct of the study.

              8. The gamma camera of Claim 7, wherein the camera system controller is responsive to the modification of a study parameter during the conduct of the study to  
15           ascertain whether the modified parameter can be prospectively utilized.

              9. A method of operating a gamma camera to conduct a nuclear study comprising:  
20           preconditioning the camera with parameters which govern the conduct of the study by the camera;  
              commanding the camera to begin the study in accordance with the parameters; and  
              prior to the conclusion of the study, commanding the  
25           camera to complete the study in accordance with a modified parameter.

              10. The method of Claim 9, wherein the parameters include at least one of the time duration of the study,  
30           the number of frames acquired during the study, and the count criterion for data acceptance,  
              wherein at least one parameter is modified prior to completion of the study.

35           11. The method of Claim 9, further comprising:

verifying that a modified parameter can be prospectively utilized during the completion of the study.

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